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RIPDES SMALL MS4 ANNUAL REPORT GENERAL INFORMATION PAGE

RIPDES PERMIT #RIR040 019

REPORTING PERIOD: **YEAR 14**
Jan 2017-Dec 2017

OPERATOR OF MS4

Name: The University of Rhode Island				
Mailing Address: Sherman Building 60 Tootell Road				
City: Kingston	State: RI	Zip: 02861	Phone: (401) 874-5488	
Contact Person: Jerome Sidio		Title: Director of Facilities Services		
		Email: JerrySidio@uri.edu		
Legal status (circle one):				
PRI - Private	PUB - Public	BPP - Public/Private	<input checked="" type="checkbox"/> STA - State	FED - Federal
Other (please specify):				

OWNER OF MS4 (if different from OPERATOR)

Name: Same			
Mailing Address:			
City:	State:	Zip:	Phone: ()
Contact Person:		Title:	
		Email:	

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name Jerome Sidio

Print Title Director of Facilities Services

Signature _____ Date _____



**MINIMUM CONTROL MEASURE #1:
PUBLIC EDUCATION AND OUTREACH (Part IV.B.1 General Permit)**

SECTION I. OVERALL EVALUATION:

GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:

Include information relevant to the implementation of each measurable goal, such as activities, topics addressed, audiences and pollutants targeted. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for choosing the education activity to address the pollutant of concern.

(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals. Mark with an asterisk (*) if this person/entity is different from last year.)

Responsible Party Contact Name: Andrew Alcusky

Phone: 401 874 2448

Email: aalcusky@uri.edu

IV.B.1.b.1	Use the space below to provide a General Summary of activities implemented to educate your community on how to reduce stormwater pollution. For TMDL affected areas, with stormwater associated pollutants of concern, indicate rationale for choosing the education activity. List materials used for public education and topics addressed. Summarize implementation status and discuss if the activity is appropriate and effective.
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The University requires all staff employees to attend training sessions annually for the proper handling of contaminants and the proper disposal of contaminants. All employees are reminded that nothing can be disposed into the storm drainage system. These safety sessions and presentations are conducted by the URI Safety and Risk Dept. Messages to educate the community also continued in the school website. The URI Cooperative Extension maintains a RI Stormwater Solutions website with educational information on sources and impacts of stormwater and steps that citizens and homeowners can take to reduce impacts such as reducing fertilizer use, keeping oil out of storm drains, using water wisely, cleaning up pet waste and recycling rainwater. The Stormwater Solutions staff also occasionally get articles on stormwater printed in state and regional newspapers. The CE and the URI Outreach Center* worked with communities to install and maintain rain gardens. The Outreach Center also runs an Eco-Exploration camp for school age children that provides education on stormwater and conservation. URI has been monitoring increasing concentrations of sodium and chloride in its water supply. The URI Utilities group has initiated an effort to develop a deicing salt best management policy to educate staff and describe techniques to more effectively use salt in ways that create less of an impact on campus stormwater systems and on the groundwater aquifer that both URI and local communities depend on. The Utilities Department is working with other facilities services departments involved with deicing to improve the effectiveness of deicing efforts and to lower sodium and chloride levels.

IV.B.1.b.2	Use the space below to provide a general summary of how the public education program was used to educate the community on how to become involved in the municipal or statewide stormwater program. Describe partnerships with governmental and non-governmental agencies used to involve your community.
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The University continued its support with various student groups for campus cleanup activities such as Earth Day events. Both the Cooperative Extension, the URI Outreach Center and the URI Sustainability Office* organize an annual Earth Day event on campus with booths and displays on a range of environmental topics including stormwater, water quality, recycling and land use. In what may appear as unrelated to stormwater pollution prevention, the University has entered into a contract for energy savings which includes a behavior change measure. One item discussed with all on-campus students is changing their behavior concerning trash and recycling materials. Any reduction of trash considerably helps the amount of pollution entering the storm water system. URI has constructed and maintains the Rhode Island Stormwater Management and treatment Demonstration Facility (RI SDF). This facility evaluates BMP structures against manufacturer claims and under environmental conditions prevailing in the state.

PUBLIC EDUCATION AND OUTREACH cont'd

Check all topics that were included in the Public Education and Outreach program during this reporting period. For each of the topics selected, provide the target pollutant (e.g. construction sites, total suspended solids):

Topic	Target Pollutant(s)
<input type="checkbox"/> Construction Sites	
<input type="checkbox"/> Pesticide and Fertilizer Application	
<input type="checkbox"/> General Stormwater Management Information	
<input type="checkbox"/> Pet Waste Management	
<input type="checkbox"/> Household Hazardous Waste Disposal	
<input type="checkbox"/> Recycling	
<input type="checkbox"/> Illicit Discharge Detection and Elimination	
<input type="checkbox"/> Riparian Corridor Protection/Restoration	
<input type="checkbox"/> Infrastructure Maintenance	
<input type="checkbox"/> Trash Management	
<input type="checkbox"/> Smart Growth	
<input type="checkbox"/> Vehicle Washing	
<input type="checkbox"/> Storm Drain Marking	
<input type="checkbox"/> Water Conservation	
<input type="checkbox"/> Green Infrastructure/Better Site Design/LID	
<input type="checkbox"/> Wetland Protection	
<input type="checkbox"/> Other: impacts of salt application to roads and sidewalks	Sodium, chloride
<input type="checkbox"/> None	

Specific audiences targeted during this reporting period:

- | | |
|---|---|
| <input type="checkbox"/> Public Employees | <input type="checkbox"/> Contractors |
| <input type="checkbox"/> Residential | <input type="checkbox"/> Developers |
| <input type="checkbox"/> Businesses | <input type="checkbox"/> General Public |
| <input type="checkbox"/> Restaurants | <input type="checkbox"/> Industries |
| <input checked="" type="checkbox"/> Other: University staff | <input type="checkbox"/> Agricultural |

Additional Measurable Goals and Activities

Please list all stormwater training attended by your staff during the 2017 calendar year and list the name(s) and municipal position of all staff who attended the training.

Trainings: "Perfect Storm" Webinar, Bristol RI; January 25, 2017
 Practical Maintenance of Green Storm Water Infrastructure at Roger Williams Park; October 10, 2017
 Erosion Control Field day – URI East Farm October 19, 2017

Attending name of staff and title: Andrew Alcusky PM Utilities Dept

Attending name of staff and title: _____



**MINIMUM CONTROL MEASURE #2:
PUBLIC INVOLVEMENT/PARTICIPATION (Part IV.B.2 General Permit)**

SECTION I. OVERALL EVALUATION:

GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:

Include information relevant to the implementation of each measurable goal, such as types of activities and audiences/groups engaged. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for the activities chosen to address the pollutant of concern.

(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals. Mark with an asterisk (*) if this person/entity is different from last year.)

Responsible Party Contact Name: Andrew Alcusky

Phone: 401 874 2448

Email: aalcusky@uri.edu

IV.B.2.b.2.ii Use the space below to describe audiences targeted for the public involvement minimum measure, include a description of the groups engaged, and activities implemented and if a particular pollutant(s) was targeted. If addressing TMDL requirements indicate how the audience(s) and/or activity address the pollutant(s) of concern. Name of person(s) and/or parties responsible for implementation of activities identified. Assess the effectiveness of BMP and measurable goal.

Audiences targeted include the students living on campus especially the freshman students new to the campus. Others targeted include staff both educational as well as support staff. Activities implemented include the storm drain marking program by the students. Support staff is required to attend annual review sessions on the prohibition of illicit discharges into the storm drainage system and the proper handling and disposal of all materials. Other activities targeted for involvement include the campus wide cleanup to reduce floatables and Earth day activities. Responsible parties include the URI Utilities Dept. Lands and Ground Dept., the Trash and Recycling dept. the URI Sustainability Office* and the URI Safety and Risk Dept.

Opportunities provided for public participation in implementation, development, evaluation, and improvement of the Stormwater Management Program Plan (SWMP) during this reporting period. Check all that apply:

- | | |
|--|---|
| <input checked="" type="checkbox"/> Cleanup Events | <input type="checkbox"/> Storm Drain Markings |
| <input type="checkbox"/> Comments on SWMP Received | <input type="checkbox"/> Stakeholder Meetings |
| <input type="checkbox"/> Community Hotlines | <input type="checkbox"/> Volunteer Monitoring |
| <input type="checkbox"/> Community Meetings | <input type="checkbox"/> Plantings |
| <input type="checkbox"/> Other (describe) | |

Additional Measurable Goals and Activities

SECTION II. Public Notice Information (Parts IV.G.2.h and IV.G.2.i) *Note: attach copy of public notice

Was the availability of this Annual Report and the Stormwater Management Program Plan (SWMP) announced via public notice? YES NO

If YES, Date of Public Notice: March 9, 2018

How was public notified:

- | | |
|---|---|
| <input type="checkbox"/> List-Serve (Enter # of names in List: _____) | <input checked="" type="checkbox"/> Newspaper Advertising |
| <input type="checkbox"/> TV/Radio Notices | <input type="checkbox"/> Town Hall posting |
| <input checked="" type="checkbox"/> Website | <input type="checkbox"/> Other: |

Enter Web Page URL: https://web.uri.edu/facilities/utilities/

Was public meeting held? YES NO

Date:

Where:

Summary of public comments received:

Planned responses or changes to the program:



MINIMUM CONTROL MEASURE #3: ILLICIT DISCHARGE DETECTION AND ELIMINATION (Part IV.B.3 General Permit)

SECTION I. OVERALL EVALUATION:

GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS

Include information relevant to the implementation of each measurable goal, such as activities implemented (when reporting tracked and eliminated illicit discharges, please explain the rationale for targeting the illicit discharge) to comply with on-going requirements, and illicit discharge public education activities, audiences and pollutants targeted. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for the activities chosen to address the pollutant of concern.

(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals. Mark with an asterisk (*) if this person/entity is different from last year.)

Responsible Party Contact Name: Andrew Alcusky

Phone: 401 874 2448

Email: aalcusky@uri.edu

IV.B.3.b.1:	<p>If the outfall map was not completed, use the space below to indicate reasons why, proposed schedule for completion of requirement and person(s)/ Department responsible for completion. (The Department recommends electronic submission of updated EXCEL Tables if this information has been amended.)</p> <p>Number of Outfalls Mapped within regulated area: <u>98</u></p> <p>Percent Complete: <u>100%</u></p> <p>If 100% Complete, Provide Date of Completion: <u>November 2014</u></p>
<p>The outfall map was completed by the URI Utilities Dept. Outfall Location Tables have been completed and were included with the Year 5 report. The outfall map was updated in 2013 and was submitted to DEM as part of the 2013 report. The updated EXCEL tables will also be submitted (electronically) as part of this report. The Utilities Dept. used the original information from our consultant for the initial outfall map. In 2012 through 2015 the Utility Dept. expanded the list from field observations during inspections, new construction and review of plans. Eight additional outfalls were identified in 2016 with most of them associated with the construction of the new Chemistry Building. No new outfalls were identified in 2017.</p>	
IV.B.3.b.2	<p>Indicate if your municipality chose to implement the tagging of outfalls activity under the IDDE minimum measure, activities and actions undertaken under the 2017 calendar year.</p>
<p>The University Utilities Dept chose to implement the tagging of outfalls under the IDDE minimum measure and tagged the outfalls in 2008. Later the University located all outfalls in GIS. No new outfalls were identified in 2017.</p>	
IV.B.3.b.3	<p>Use the space below to provide a summary of the implementation of recording of system additional elements (catch basins, manholes, and/or pipes). Indicate if the activity was implemented as a result of the tracing of illicit discharges, new MS4 construction projects, and inspection of catch basins required under the IDDE and Pollution Prevention and Good Housekeeping Minimum Measures, and/or as a result of TMDL related requirements and/or investigations. Assess effectiveness of the program minimizing water quality impacts.</p>
<p>The Kingston Campus drainage system and its records were updated during 2017. Some of the updates are a result of new construction work on campus. Areas of new construction included the new College of Engineering. Other catch basins and drainage components were added to control flooding and erosion issues. Other catch basins and drainage structures were removed from inventory due to construction.. As a result of the construction activity and field inspection an additional 15 catch basins and 20 drain manholes were added to our inventory and 8 catch basins and 9 DMH's were removed from the inventory list. The entire drainage system is now recorded in GIS which allows for easier updates in the future. The changes in the quantities were a result of further mapping of the system, inspection of the system and updating changes due to recent construction. In addition to changes found during the field inspections, URI will continue to update the drainage system records as they receive the as-built drawings of the projects completed during the past calendar year. URI's Capital Projects Group provides a status of all projects on campus to the Facilities Dept. and as projects are closed out, the URI Utilities Dept. will then update the drainage records using the as-built drawings as well as any new info discovered during the yearly inspections.</p>	
IV.B.3.b.4	<p>Indicate if the IDDE ordinance was not developed, adopted, and submitted to RIDEM, explain reasons why, submit proposed schedule for completion and identify person(s) / Department and/or parties responsible for the completion of this requirement.</p> <p>Date of Adoption: _____</p> <p>If the Ordinance was amended in 2017, please indicate why changes were necessary.</p>

ILLICIT DISCHARGE DETECTION AND ELIMINATION cont'd

	<p>The University of Rhode Island has not developed this ordinance in the 2017 calendar year. The University owns the entire subject area and controls all activities on their property. The University is a state agency that has policies in place to ensure proper compliance to prohibit and enforce illicit discharges to the MS4. Policy enforcement is through a combination of inspections by Safety and Risk Management and Facilities Services Departments. The SR&M department receives, responds, investigates and files all incidents involving hazmat and other illicit discharge activities that might occur on campus. Investigations, corrective actions and enforcement activities are monitored and implemented through this office. We also conduct annual inspections throughout the campus for potential illicit discharges into the storm and waste water systems. We have developed a Spill Prevention and Containment Plan as required by the EPA that is designed to reduce the potential for illicit discharges into the sanitary and storm water systems.</p>
<p>IV.B.3.b.5.ii, iii, iv, & v</p>	<p>Use the space below to provide a summary of the implementation of procedures for receipt and consideration of complaints, tracing the source of an illicit discharge, removing the source of the illicit discharge and program evaluation and assessment as a result of removing sources of illicit discharges. Identify person(s) / Department and/or parties responsible for the implementation of this requirement.</p>
	<p>All complaints (of any nature) are referred to the URI Control Center. The Control Center will log each call and then notify the appropriate department responsible for the complaint. If the complaint is relative to an illicit discharge to the storm system, the URI Utilities Dept will be responsible to respond to the complaint. The Utilities Dept. will evaluate the complaint, trace the origin of the illicit discharge, ensure that the illicit discharge is stopped immediately and assess if other procedures need to be implemented. URI did not receive any complaints on illicit discharges in 2017.</p>
<p>IV.B.3.b.5.vi</p>	<p>Use the space below to provide summary of implementation of catch basin and manhole inspections for illicit connections and non-stormwater discharges. If the required measurable goal of inspecting all catch basins and manholes for this purpose was not accomplished, please indicate reasons why, the proposed schedule of completion and identify person(s) / Department and/or parties responsible for the implementation of this requirement. Evaluate effectiveness of the implementation of this requirement. The operator must keep records of all inspections and corrective actions required and completed.</p> <p>Number of Catch Basins and Manholes Inspected for illicit connections/IDDE: <u>1251</u> Percent Complete: <u>98.1%</u> Date of Completion: <u>11/17/17</u></p>
	<p>During 2017, the URI Utilities Dept. inspected all catch basins that were accessible throughout the Kingston Campus for illicit connections and non-storm water discharges. Approximately 2% (24 structures) of the drainage structures were not accessible due to construction. The inspections were performed in conjunction with the surveying of the drainage system for inventory of the system and noting condition of the structures. Inspection of the catch basins also help determined which structures were in need of cleaning. URI recorded the inspection results in an Excel database in 2017. A total of 17 Work orders were issued as a result of these inspections. In most cases, work orders consisted of catch basins requiring being re-built or broken grates. URI will continue to inspect 100% of the accessible catch basins in 2018.</p>
<p>IV.B.3.b.5.vii</p>	<p>If dry weather surveys including field screening for non-stormwater flows and field tests of selected parameters and bacteria were not completed, indicate reasons why, proposed schedule for the completion of this measurable goal and person(s) / Department and/or parties for the completion of this requirement. Evaluate effectiveness of the implementation of this requirement. The results of the dry weather survey investigations must be submitted to RIDEM electronically, if not already submitted or if revised since 2009, in the RIDEM-provided EXCEL Tables and should include visual observations for all outfalls during both the high and low water table timeframes, as well as sample results for those outfalls with flow. The EXCEL Tables must include a report of all outfalls and indicate the presence or absence of dry weather discharges.</p> <p>Number of Outfalls Surveyed Jan-Apr: <u>98</u> Number of Outfalls Surveyed Jul-Oct: <u>98</u> Percent Complete: <u>100%</u> Date of Completion: <u>8/29/2017</u></p>
	<p>The University conducted two dry weather surveys in 2017. The University Utilities Dept. performed dry weather surveys on March 24, 2017 and August 29, 2017. In the first survey, flow was noted at eighteen of the outfall sites. The origin of the flow in all cases was traced back to ground water or natural flow from wet areas. Flow was observed at five of the outfalls during the August 29, 2017 survey. The results of the surveys are shown in the Year 17 Report. The URI Utilities Dept conducted the surveys and the testing was performed by ESS Labs.</p>
<p>IV.B.3.b.7</p>	<p>Use the space below to provide a description of efforts and actions taken as a result of for coordinating with other physically interconnected MS4s, including State and federal owned or operated MS4s, when illicit discharges were detected or reported. Identify person(s) / Department and/or parties responsible for the implementation of this requirement. Evaluate effectiveness of the implementation of this requirement.</p>

ILLICIT DISCHARGE DETECTION AND ELIMINATION cont'd

<p>During 2017 the University did not have any issues with illicit discharges associated with other MS4's. The only interconnections with another MS4 are two drainage lines that connect 12 catch basins from the South Kingston MS4 to the URI drainage system. Since there are rather limited interconnections, the University has not encountered any illicit discharges from other MS4's to date.</p>	
IV.B.3.b.8	<p>Use the space below to provide a description of efforts and actions taken for the referral to RIDEM of non-stormwater discharges not authorized in accordance to Part I.B.3 of this permit or another appropriate RIPDES permit, which the operator has deemed appropriate to continue discharging to the MS4, for consideration of an appropriate permit. Identify person(s) / Department and/or parties responsible for the implementation of this requirement. Evaluate effectiveness of the implementation of this requirement.</p>
<p>The University did not refer any notices to RIDEM associated with non-storm water discharges in 2017. The University identified one non-storm water discharge from a cooling tower at White Hall. The appropriate Dept. was notified to cease action immediately. The University is currently replacing the cooling system to White Hall and the cooling tower will be permanently offline by the summer of 2018.</p>	
IV.B.3.b.9	<p>Use the space below to provide a description of efforts and actions taken to inform public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste, as well as allowable non-stormwater discharges identified as significant contributors of pollutants. Include a description on how this activity was coordinated with the public education minimum measure and the pollution prevention/good housekeeping minimum measure programs. Identify person(s) / Department and/or parties responsible for the implementation of this requirement. Evaluate effectiveness of the implementation of this requirement.</p>
<p>All of the University's Facility Services personnel must attend annual training on identifying the materials that the employees are exposed, spill prevention plans, spill control procedures and the proper means of material disposal. The University's Safety & Risk Dept. conducts numerous trainings throughout the year in proper disposal of wastes and especially hazardous wastes. All employees working with the waste stream are required to attend re-fresher courses. The Safety and Risk Dept. added another module to their training program to reinforce the fact that dumping anything down a storm drain is a violation of the law and employees could face disciplinary action if they ignore this requirement. Staff employees have been trained to comply with spill control procedures and the proper disposal of waste. A campus wide effort to inform students, staff and visitors was implemented.</p> <p>All contractors working on campus are required per contract to properly dispose of all waste material and are allowed only permitted discharges into the storm drainage system.</p> <p>The University's Utilities Dept, The Safety and Risk Dept. and the Office of Capital Projects are tasked to monitor this requirement.</p>	
<p>Additional Measurable Goals and Activities</p>	

SECTION II.A Other Reporting Requirements - Illicit Discharge Investigation and System Mapping (Part IV.G.2.m)

# of Illicit Discharges Identified in 2017: 1	# of Illicit Discharges Tracked in 2017: 1
# of Illicit Discharges Eliminated in 2017: 1	# of Complaints Received: 0
# of Complaints Investigated:	# of Violations Issued: 0
# of Violations Resolved:	# of Unresolved Violations Referred to RIDEM: 0
Total # of Illicit Discharges Identified to Date (since 2003): 9	Total # of Illicit Discharges remaining unresolved at the end of 2017: 0
<p>Summary of Enforcement Actions: The Utilities Dept. observed that Outfall 090 had an increase in flow. The increase in flow was traced back to a cooling tower overflowing into a roof drain at White Hall. The Utilities Dept. notified the URI Maintenance and Repair Dept. to cease this practice immediately and discharge the cooling tower overflow into the sanitary system. At the end of 2017 the University started a project to replace the cooling system at White Hall which will eliminate the cooling tower. The new cooling system will be completed prior to the summer cooling season.</p>	
<p>Extent to which the MS4 system has been mapped:</p> <p>Total # of Outfalls Identified and Mapped to date: 98</p>	

SECTION II.B Interconnections (Parts IV.G.2.k and IV.G.2.l)

ILLICIT DISCHARGE DETECTION AND ELIMINATION cont'd

Interconnection:	Date Found:	Location:	Name of Connectee:	Originating Source:	Planned and Coordinated Efforts and Activities with Connectee:
24" Storm Drain	2-8-11	Briar Lane	South Kingston	Wetlands south of Briar Lane	Agreed to notify SK Engineer of any issues
12" Storm Drain	2-8-11	Fortin Road	South Kingston	2 Catch Basins on Fortin Road	Agreed to notify SK Engineer of any issues
12" Storm Drain	2-8-11	Chapel Road	South Kingston	10 Catch Basins on Chapel Road	Agreed to notify SK Engineer of any issues



**MINIMUM CONTROL MEASURE #4:
CONSTRUCTION SITE STORMWATER RUNOFF CONTROL
(Part IV.B.4 General Permit)**

SECTION I. OVERALL EVALUATION:

GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:

Include information relevant to the implementation of each measurable goal, such as activities implemented to support the review, issuance and tracking of permits, inspections and receipt of complaints. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for the activities chosen to address the pollutant of concern.

(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals. Mark with an asterisk (*) if this person/entity is different from last year.)

Responsible Party Contact Name: Andrew Alcusky

Phone: 401 874 2448

Email: aalcusky2uri.edu

IV.B.4.b.1	<p>Indicate if the Sediment and Erosion Control and Control of Other Wastes at Construction Sites ordinance was not developed, adopted, and submitted to RIDEM, explain reasons why, submit proposed schedule for completion and identify person(s) / Department and/or parties responsible for the completion of this requirement.</p> <p>Date of Adoption: _____</p> <p>If the Ordinance was amended in 2017, please indicate why changes were necessary. <i>Please also indicate if amendments have been made based on the 2010 RI Stormwater Design and Installation Standards Manual, and provide references to the amended portions of the local codes/ordinances.</i></p>
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An ordinance for Sediment and Erosion Control and Control of Other Wastes at Construction Sites ordinance was not developed. The University does not have a mechanism to develop ordinances. The University owns all of the subject area and controls all activities on its properties. The mechanism to ensure proper erosion and sediment controls and control of other wastes is our "General Plans and Specifications" developed for and under the direction of the Office of Capital Projects by an A/E firm. Under Division 2, Site Construction, we require erosion and sediment control as well as the control of other wastes. These requirements are site specific and are developed by the A/E firm for each project. The requirements are enforced and managed by the project manager of each construction project. If the requirements are not met, we impose corrective actions in order to bring the project back into compliance. Failure to comply with the contract requirements results in a breach of contract and is dealt with according to contract law.

IV.B.4.b.6	Use the space below to describe actions taken as a result of receipt and consideration of information submitted by the public.
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Information from the public would be documented and evaluated by the University with a response provided after the evaluation. In 2017 the University did not receive any information or requests for information from the public.

IV.B.4.b.8	Use the space below to describe activities and actions taken as a result of referring to the State non-compliant construction site operators. The operator may rely on the Department for assistance in enforcing the provisions of the RIPDES General Permit for Stormwater Discharges Associated with Construction Activity to the MS4 if the operator of the construction site fails to comply with the local and State requirements of the permit and the non-compliance results or has the potential to result in significant adverse environmental impacts.
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The University did not have any referrals to the State for assistance in enforcing any part of RIPDES General Permit for Storm Water Discharge Associated with Construction Activity to this MS4 in 2017. The Utilities Dept. did issue five violations to the College of Engineering construction team. The URI Capital Projects Group worked with the contractor and design engineer to address the violations in a reasonable time frame.

Additional Measurable Goals and Activities

SECTION II. A - Plan and SWPPP/SESC Plan Reviews during Year 14 (2017), Part IV.B.4.b.2: Issuance of permits and/or implementation of policies and procedures for all construction projects resulting in land disturbance of greater than 1 acre.
Part IV.B.4.b.4: Review 100% of plans and SWPPPs/SESC Plans for construction projects resulting in land disturbance of 1-5 acres must be conducted by adequately trained personnel and incorporate consideration of potential water quality impacts.

of Construction Applications Received: <u>5</u>
of Construction Reviews Completed: <u>5</u>
of Permits/Authorizations Issued: <u>5</u>
<p>Summary of Reviews and Findings, include an evaluation of the effectiveness of the program. Plan reviews were received and completed for the College of Engineering, the new Visitor's Center, the Well No. 3 Renovation, the new Brookside Residence Hall and the new Solar Array at the old landfill site. The application process was started for the new Bike Path and the Fraternity Circle Upgrade.</p> <p>Identify person(s) /Department and/or parties responsible for the implementation of this requirement: Andy Alcusky – Project Manager URI Utilities Dept. Ken Burke – Assistant Director of Capital Projects</p>

SECTION II.B - Erosion and Sediment Control Inspections during Year 14 (2017), Parts IV.G.2.n and IV.B.4.b.7: Inspection of 100% of all construction projects within the regulated area that discharge or have the potential to discharge to the MS4 (the program must include two inspections of all construction sites, first inspection to be conducted during construction for compliance of the Erosion and Sediment controls at the site, the second to be conducted after the final stabilization of the site).

# of Active Construction Projects: 4	
# of Site Inspections: 8	# of Complaints Received: 3
# of Violations Issued: 5	# of Unresolved Violations Referred to RIDEM: 0
<p>Summary of Enforcement Actions, include an evaluation of the effectiveness of the program. At the beginning of the College of Engineering Project, 5 violations were issued by the Utilities Dept. Violations were issued due to a lack of timely response by the project team. After the violations were issued, the URI Capital Projects Group stepped in and an immediate response was made to clear up the violations. The violations definitely alerted the construction team and a diligent effort was made to follow the SWPPP. Three Complaints were also received with all complaints concerning stockpiled fill at the East Farm site. The complaints were addressed by the College of Engineering project team.</p> <p>Identify person(s) /Department and/or parties responsible for the implementation of this requirement: Andy Alcusky – Project Manager URI Utilities Dept. Ken Burke – Assistant Director of Capital Projects</p>	



**MINIMUM CONTROL MEASURE #5:
POST CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND
REVELOPMENT
(Part IV.B.5 General Permit)**

SECTION I. OVERALL EVALUATION:

GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:

Include information relevant to the implementation of each measurable goal, such as activities implemented to support the review, issuance and tracking of permits, inspections and receipt of complaints, etc. Please indicate if any projects have incorporated the use of Low Impact Development techniques. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for the activities chosen to address the pollutant of concern.

(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals. Mark with an asterisk (*) if this person/entity is different from last year.)

Responsible Party Contact Name: Andrew Alcusky

Phone: 401 874 2448

Email: aalcusky@uri.edu

IV.B.5.b.5	Use the space below to describe activities and actions taken to coordinate with existing State programs requiring post-construction stormwater management.
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Long term BMP maintenance schedules are required to be included as part of the approval process for new development. Maintenance schedules are developed in accordance to the Rhode Island Stormwater design and Installation Standards Manual.

IV.B.5.b.6	Use the space below to describe actions taken for the referral to RIDEM of new discharges of stormwater associated with industrial activity as defined in RIPDES Rule 31(b)(15) (the operator must implement procedures to identify new activities that require permitting, notify RIDEM, and refer facilities with new stormwater discharges associated with industrial activity to ensure that facilities will obtain the proper permits).
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There was not any new industrial activity at this MS4 in 2017. Therefore there were no referrals to the State for any new discharges of storm water associated with industrial activity.

IV.B.5.b.9	Indicate if the Post-Construction Runoff from New Development and Redevelopment Ordinance was not developed, adopted, and submitted to RIDEM, explain reasons why, submit proposed schedule for completion and identify person(s) / Department and/or parties responsible for the completion of this requirement.
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Date of Adoption: _____

If the Ordinance was amended in 2017, please indicate why changes were necessary. **Please also indicate if amendments have been made based on the 2010 RI Stormwater Design and Installation Standards Manual, and provide references to the amended portions of the local codes/ordinances.**

The Post-Construction Runoff from New Development and Redevelopment Ordinance was not developed. The University does not have a mechanism to develop ordinances. The University owns the subject area and controls all activities on its property. The mechanism to ensure proper post construction erosion and sediment controls and control of other wastes post construction is also our "General Plans and Specifications" developed for and under the direction of the Office of Capital Projects by an A/E firm. Under Division 2, Site Construction, we require erosion and sediment control as well as the control of other wastes. Post construction requirements are included in the storm water prevention plans developed for each project by the A/E firm. The requirements are enforced and managed by the project manager of each construction project in conjunction with our own certified inspector. If the requirements are not met, we impose corrective actions in order to bring the project back into compliance. Failure to comply with the contract requirements results in a breach of contract and is dealt with according to contract law.

IV.B.5.b.12	Use the space below to describe activities and actions taken to identify existing stormwater structural BMPs discharging to the MS4 with a goal of ensuring long term O&M of the BMPs.
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A list of BMPs was formulated in the Drainage Master Plan of 2006. In 2008, the list of BMPs was updated to include new BMPs since the Master Drainage Plan was developed. The procedure to add new BMPs and delete the BMP's removed during new construction is an annual task for the Utilities Dept. The Utilities Dept. updates the maintenance requirements for each new BMP. Each year the University updates this list as new work is completed on campus. In 2017 the number of BMP's increased and the updated list is included with the report. The BMP list increased due to a number of projects completed in the past year. The University uses the BMP list to schedule BMP maintenance. The Master Drainage Plan is currently being updated and should be completed in 2018.

POST CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT
cont'd

Additional Measurable Goals and Activities

SECTION II.A. - Plan and SWPPP/SESC Plan Reviews during Year 14 (2017), Part IV.B.5.b.4: Review 100% of post-construction BMPs for the control of stormwater runoff from new development and redevelopment projects that result in discharges to the MS4 which incorporates consideration of potential water quality impacts (the program requires reviewing 100% of plans for development projects greater than 1 acre, not reviewed by other State programs).

of Post-Construction Applications Received: <u>0</u>
of Post-Construction Reviews Completed: <u>0</u>
of Permits/Authorizations Issued: <u>0</u>
Summary of Reviews and Findings, include an evaluation of the effectiveness of the program.
There was no new development in 2017 that would require the plan reviews. All of the URI projects are reviewed by other state programs.
Identify person(s) /Department and/or parties responsible for the implementation of this requirement: Andy Alcusky – Project Manager URI Utilities Dept. Ken Burke – Assistant Director of Capital Projects

SECTION II.B. - Post Construction Inspections during Year 14 (2017), Parts IV.G.2.o and IV.B.5.b.10 - Proper Installation of Structural BMPs: Inspection of BMPs, to ensure these are constructed in accordance with the approved plans (the program must include inspection of 100% of all development greater than one acre within the regulated areas that result in discharges to the MS4 regardless of whom performs the review).

# of Active Construction Projects: 4	# of Construction Projects Completed: 1
# of Site Inspections for proper Installation of BMPs: 2	# of Complaints Received: 0
# of Violations Issued: 0	# of Unresolved Violations Referred to RIDEM: 0
Summary of Enforcement Actions:	
Active construction projects included the new College of Engineering, the new Visitor's Center, Modifications to Well No.3, and the new Solar Array.	
No enforcement actions were required. The URI Utilities Dept. conducted post construction inspections at three BMP's installed by the contractor replacing the steam line east of Bressler Hall. The three new BMP's were retention ponds to control storm water flow in the area. Prior to the steam line replacement, there were no controls for storm water flow in this area.	
Identify person(s) /Department and/or parties responsible for the implementation of this requirement: Andy Alcusky – Project Manager URI Utilities Dept.	

SECTION II.C. - Post Construction Inspections during Year 14 (2017), Parts IV.G.2.p and IV.B.5.b.11 - Proper Operation and Maintenance of Structural BMPs: Describe activities and actions taken to track required Operations and Maintenance (O&M) actions for site inspections and enforcement of the O&M of structural BMPs. Tracking of required O&M actions for site inspections and enforcement of the O&M of structural BMPs.

# of Site Inspections for proper O&M of BMPs: 101	# of Complaints Received: 0
# of Violations Issued: 0	# of Unresolved Violations Referred to RIDEM: 0

POST CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT
cont'd

Summary of Activities and Enforcement Actions. Evaluate the effectiveness of the Program in minimizing water quality impacts.

The Utilities Dept. conducted inspections of all structural BMP's throughout the campus. A total of 37 work orders were issued to the Lands & Grounds Dept. for maintenance. The inspections provide a good mechanism to identify potential problems (such as flooding risks to buildings) in addition to the environmental concerns. When the work orders are completed the Utilities Dept. Work orders then verifies the work was properly completed.

Identify person(s) /Department and/or parties responsible for the implementation of this requirement:

Andy Alcusky – URI Utilities Dept.

Strategies for requiring the use of non-structural Low Impact Development (LID) site design practices and techniques into stormwater management designs for new and redevelopment projects, check all that apply in your municipality/MS4:

None,

- Ordinances or by-laws requiring LID standards (e.g. reduced road widths, % conservation land, etc.)
- Ordinances or by-laws requiring LID design at conceptual review (i.e., Pre-application and/or Master Plan) stages for municipal review prior to plans being engineered.
- Ordinances or by-laws requiring LID standards only in impaired waterbody drainage areas
- Local development regulations requiring use of LID to the maximum extent practicable
- LID Guidance available in written form
- LID Guidance available at pre-application meetings
- Other strategies to ensure incorporation of LID to the maximum extent practicable, describe:

The University does not have any privately owned BMP's. All BMP's are MS4 owned BMP's

For internal projects LID is a standard of the URI Office of Capital Planning.

Person(s)/Department responsible for reviewing submissions for LID:

Generally, the URI Capital Projects Group is the responsible Dept. reviewing submissions for LID

Person(s)/Department/Board responsible for approving submissions for LID at Preliminary and/or Final Review, if applicable:

Ken Burke – Assistant Director of Capital Projects

POST CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT
cont'd

Strategies being implemented to ensure long-term Operation and Maintenance (O&M) of privately-owned structural stormwater BMPs, check all that apply in your municipality/MS4:

- None, No privately owned BMP's.
- Ordinances or by-laws identify BMP inspection responsible party
- Ordinances or by-laws identify BMP maintenance responsible party
- Ordinances or by-laws identify BMP inspections and maintenance requirements
- Ordinances or by-laws provide for easements or covenants for inspections and maintenance
- Ordinances or by-laws require for every constructed BMP an inspections and maintenance agreement
- Ordinances or by-laws contain requirements for documenting and detailing inspections
- Ordinances or by-laws contain requirements for documenting and detailing maintenance
- Ordinances or by-laws contain authority to enforce for lack of maintenance or BMP failure
- The MS4 is responsible for inspections of all privately-owned BMPs
- The MS4 is responsible for maintenance of all privately-owned BMPs
- Establishment of escrow account for use in case of failure of BMP
- Other strategies to ensure long-term O&M of privately-owned BMPs, describe:
- The University does not have any privately owned BMP's. All BMP's are MS4 owned BMP's

Does your municipality/MS4 require the use BMPs Operations and Maintenance Agreements? YES N/A

If YES, please indicate if the Operations and Maintenance Agreements include the following:

- | | |
|---|--|
| a. Party responsible for the long-term O&M of permanent stormwater management BMPs | <input type="checkbox"/> YES <input checked="" type="checkbox"/> N/A |
| b. A description of the permanent stormwater BMPs that will be operated and maintained | <input type="checkbox"/> YES <input checked="" type="checkbox"/> N/A |
| c. The location of the permanent stormwater BMPs that will be operated and maintained | <input type="checkbox"/> YES <input checked="" type="checkbox"/> N/A |
| d. A timeframe for routine and emergency inspections and maintenance of all permanent stormwater management BMPs | <input type="checkbox"/> YES <input checked="" type="checkbox"/> N/A |
| e. A requirement that all inspections and maintenance activities are documented | <input type="checkbox"/> YES <input checked="" type="checkbox"/> N/A |
| f. Annual submission of inspection/maintenance certification/documentation to the MS4 | <input type="checkbox"/> YES <input checked="" type="checkbox"/> N/A |
| g. Stormwater management easement for access for inspections and maintenance or the preservation of stormwater runoff conveyance, infiltration, and detention areas and other stormwater controls and BMPs by persons other than the property owner | <input type="checkbox"/> YES <input checked="" type="checkbox"/> N/A |
| h. Steps available for addressing a failure to maintain the stormwater controls and BMPs | <input type="checkbox"/> YES <input checked="" type="checkbox"/> N/A |

Please elaborate, if appropriate:
No privately owned BMP's on campus.

Does your municipality/MS4 keep an inventory of privately-owned BMPs? YES N/A

For privately-owned structural BMPs, does your municipality/MS4 have a system for tracking:

- | | |
|---|--|
| a. Agreements and arrangements to ensure O&M of BMPs? | <input type="checkbox"/> YES <input checked="" type="checkbox"/> N/A |
| b. Inspections? | <input type="checkbox"/> YES <input checked="" type="checkbox"/> N/A |
| c. Maintenance and schedules? | <input type="checkbox"/> YES <input checked="" type="checkbox"/> N/A |
| d. Complaints? | <input type="checkbox"/> YES <input checked="" type="checkbox"/> N/A |
| e. Non-Compliance? | <input type="checkbox"/> YES <input checked="" type="checkbox"/> N/A |
| f. Enforcement actions? | <input type="checkbox"/> YES <input checked="" type="checkbox"/> N/A |

Do you use an electronic tool (e.g. GIS, database, spreadsheet) to track post-construction BMPs, inspections, and maintenance? YES NO

If yes, please elaborate on which tools are used:

An electronic data base is utilized.

NOTE: BMP maintenance tasks can be a great way to involve and educate the community to their purpose and function. BMPs have the potential to create a highly interactive environment for community members and volunteers to get involved



**MINIMUM CONTROL MEASURE #6:
POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS
(Part IV.B.6 General Permit)**

SECTION I. OVERALL EVALUATION:

GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:

Include information relevant to the implementation of each measurable goal, such as activities and practices used to address on-going requirements, and personnel responsible. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for the activities chosen to address the pollutant of concern.

(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals. Mark with an asterisk (*) if this person/entity is different from last year.)

Responsible Party Contact Name: Andrew Alcusky

Phone: 401 874 2448

Email: aalcusky@uri.edu

IV.B.6.b.1.i Use the space below to describe activities and actions taken to identify structural BMPs owned or operated by the small MS4 operator (the program must include identification and listing of the specific location and a description of all structural BMPs in the SWMPP and update the information in the Annual Report). Evaluate appropriateness and effectiveness of this requirement.

Do you have an inventory of MS4-owned/operated BMPs? YES NO

Total # of MS4-owned/operated BMPs (does not include CBs or MHs): 108

The University updates the list of BMP's annually. BMP's are added/removed as a result of new construction activity. In addition the BMP list expanded as a result of the updated Campus Master Drainage Plan. The BMP list is also updated as a result of various other stormwater inspections such as catch basin and outfall inspections. Other BMP's are discovered during storm events when we observe storm water flow throughout the campus. In 2017, eleven new BMP's were added to our inventory of BMP's. The eleven new BMP's are a result of recent construction work, in-house modifications by our Lands and Grounds Dept. and further review of the University's drainage system The University's Utilities Dept. uses this inventory for planned inspections/maintenance of the BMP's. The BMP inventory list is a useful tool to ensure proper inspection of all BMP's.

IV.B.6.b.1.ii Use the space below to describe activities and actions taken for inspections, cleaning and repair of detention/retention basins, storm sewers and catch basins with appropriate scheduling given intensity and type of use in the catchment area. Evaluate appropriateness and effectiveness of this requirement.

of MS4-owned/operated BMPs inspected in 2017: 108

of MS4-owned/operated BMPs maintained/cleaned in 2017: 27

of MS4-owned/operated BMPs repaired in 2017: 1

Does your municipality/MS4 have a system for tracking:

- a. Inspection schedules of MS4-owned BMPs? YES NO
- b. Maintenance/cleaning schedules of MS4-owned BMPs? YES NO
- c. Repairs, corrective actions needed? YES NO
- d. Complaints? YES NO

Do you use an electronic tool (e.g. GIS, database, spreadsheet) to track stormwater BMPs, inspections, and maintenance? YES NO

The University's BMP inventory spreadsheet lists the inspection and maintenance requirements for each BMP. Results of the inspections and any maintenance /corrective actions taken are included in an expanded portion of the BMP inventory spreadsheet. The expanded inventory spreadsheet noted 27 BMP's that required maintenance with most of them requiring a cleaning. The BMP repaired was the CBLS rain garden and required replacing a section of plugged under drain.

POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd

IV.B.6.b.6	<p>Use the space below to describe all employee training programs used to prevent and reduce stormwater pollution from activities such as park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and stormwater system maintenance for the past calendar year, including staff municipal participation in the URI NEMO stormwater public education and outreach program and all in-house training conducted by municipality or other parties. Evaluate appropriateness and effectiveness of this requirement.</p> <p>How many stormwater management trainings have been provided to <i>municipal employees</i> during this reporting period? <u>3</u></p> <p>What was the date of the last training? <u>08/07/2017</u></p> <p>How many <i>municipal employees</i> have been trained in this reporting period? <u>150</u></p> <p>What percent of <i>municipal employees</i> in relevant positions and departments received stormwater management training? <u>75</u>%</p>
<p>The University requires the Facilities Dept staff to attend refresher courses on material handling and proper disposal annually. These courses are conducted by the URI Safety and Risk Dept. The annual refresher courses for the staff, is needed not only per regulations, but it is a useful tool to reinforce the reasons why the regulations are required. Attendees of the material handling safety course have noted some potential issues with disposal of some of their cleaning products. The custodial staff had noted the difficulty emptying their waxing machines in the proper manner. As a result of the safety sessions the University's Safety and Risk Dept is working with the custodial staff to ensure the waste products are not discharged into the storm water system. The training program has also eliminated potential illicit discharges into the storm water system.</p>	
IV.B.6.b.7	<p>Use the space below to describe actions taken to ensure that new flow management projects undertaken by the operator are assessed for potential water quality impacts and existing projects are assessed for incorporation of additional water quality protection devices or practices. Evaluate appropriateness and effectiveness of this requirement.</p>
<p>RIDEM permitting is required for all new flow management projects to assess water quality impacts. The University encourages infiltration and groundwater recharge utilization in new projects and re-developments in addition to complying with regulatory standards. In addition to the large scale permitted projects, the University has been installing a number of small detention/infiltration basins, grass swales and berms to capture storm water flow. These small projects significantly reduce the amount of erosion and sedimentation issues downstream. In 2017 three small basins were built by a contractor restoring a site after a steam line was replaced east of Bressler Hall. URI was able to use the land disturbance caused by the steam line replacement into a positive development by installing storm water controls. As a result an area subject to erosion and runoff in the past is now a newly landscaped area with runoff now under control. We expect to address other areas on campus in 2018.</p>	
<p>Additional Measurable Goals and Activities</p>	

SECTION II.A - Structural BMPs (Part IV.B.6.b.1.i)

BMP ID:	Location:	Name of BMP Owner/Operator:	Description of BMP:	Frequency of Inspection:
BMP-01	Northwest of Independence Square and	URI	Level Spreader	Review Annually
BMP-02	Ballentine Hall Detention Pond, north of Ballentine Hall	URI	Detention Pond	Inspect Twice per Year
BMP-03	Butterfield Rd Sedimentation box; North of Hope Dining Hall	URI	Sedimentation Box	Inspect Annually
BMP-04	CBLS Rain Garden	URI	Rain Garden	Inspect Annually

POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd

BMP-05	North of CHI PHI Fraternity House, NW of Weldin Hall	URI	Detention structure, Stormceptor	Inspect Annually
BMP-06	BMP removed	URI	Detention Area removed as part of College of Pharmacy Project	N/A
BMP-07	Culvert at Route 138 Crossing White Horn Brook	URI	Culvert	Inspect Twice per Year
BMP-08	White Horn Brook Culvert at Fraternity Circle Footpath	URI	Culvert	Inspect Twice per Year
BMP-09	White Horn Brook Culvert at Fraternity Circle	URI	Culvert	Inspect Twice per Year
BMP-10	White Horn Brook Culvert East of Mackal Gym	URI	Culvert	Inspect Twice per Year
BMP-11	White Horn Brook Culvert at Elephant Walk	URI	Culvert	Inspect Twice per Year
BMP-12	White Horn Brook Culvert West of Dorr Hall	URI	Culvert	Inspect Twice per Year
BMP-13	White Horn Brook Culvert West Alumni Avenue	URI	Culvert	Inspect Twice per Year
BMP-14	White Horn Brook Culvert at Flagg Road	URI	Culvert	Inspect Twice per Year
BMP-15	Culvert Crossing Plains Road just South of Central Receiving Warehouse	URI	Culvert	Inspect Twice per Year
BMP-16	Dairy Barn Parking Lot; North of Meade Stadium	URI	Pervious Parking Surface	Inspect Twice per Year
BMP-17	Eddy Hall Infiltration System	URI	Infiltration System for Roof Drainage	Inspect Annually
BMP-18	Ellery Pond	URI	Detention Pond	Inspect Twice per Year
BMP-19	Flagg Road Parking Lot West detention Basin	URI	Detention Pond	Inspect Twice per Year
BMP-20	Flagg Road Parking Lot East Detention Basin	URI	Detention Pond	Inspect Twice per Year
BMP-21	Swale East of Heathman Road	URI	Swale	Inspect Twice per Year
BMP-22	Marrow Hall Detention Area West of Marrow Hall	URI	Detention Pond	Inspect Annually
BMP-23	Plains Road Parking Lot	URI	Swales, Infiltration System	Inspect Twice per Year
BMP-24	Plains Road Parking Lot	URI	Pervious Parking Surface	Inspect Twice per Year
BMP-25	Ryan Center/Tootell Vortechincs Units	URI	Vortechincs	Inspect Annually
BMP-26	Swale North of Sherman Building	URI	Swale	Inspect Twice per Year
BMP-27	Fraternity Circle Swale – North of Sigma Chi	URI	Swale	Inspect Twice per Year
BMP-28	White Horn Brook	URI	Stream/drainage Conduit	Inspect Twice per Year
BMP-29	Infiltration Systems at Wiley/Garrahy Halls	URI	Infiltration Systems	Inspect Annually
BMP-30	Hope Dining Hall Drainage	URI	CB/DMH & Piping Drainage system	Inspect Annually
BMP-31	Freshman Dorms Drainage System	URI	CB/DMH & Piping Drainage System	Inspect Annually

POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd

BMP-32	Wiley/Garrahy Drainage System	URI	CB/DMH & Piping Drainage System	Inspect Annually
BMP-33	Eddy Hall Drainage System	URI	CB/DMH & Piping Drainage System	Inspect Annually
BMP-34	Flagg Road Swale (North of Flagg Road)	URI	Swale	Inspect Twice per Year
BMP-35	Plains Road Parking Lot Drainage	URI	Drainage System	Inspect Annually
BMP-36	Campus Wide Catch Basins	URI	Drainage System	Inspect Annually
BMP-37	Campus Wide DMH's	URI	Drainage System	Inspect Annually
BMP-38	Campus Wide Street Sweeping	URI	Street Sweeping	Inspect Annually
BMP-39	Campus Wide Parking Lots Sweeping	URI	Parking Lot Sweeping	Inspect Annually
BMP-40	Flagg Road/Plains Road Catch Basins	URI	Drainage System	Inspect Annually
BMP-41	Coastal Institute Catch Basins	URI	Drainage System	Inspect Annually
BMP-42	Campus Wide Streets and Walkways	URI	Inspect on a regular basis for potential erosion issues	Inspect Annually
BMP-43	Campus Wide Outfalls	URI	Outfalls	Inspect Annually
BMP-44	Outfall Map	URI	Outfall Map	Inspect Annually
BMP-45	Independence Square Infiltration System	URI	Infiltration System	Inspect Annually
BMP-46	Roger Williams Detention Pond	URI	Detention Pond	Inspect Twice per Year
BMP-47	Open Channel North of Hope Dining Hall	URI	Waterway	Inspect Twice per Year
BMP-48	Open Channel South of Hutchinson Hall	URI	Waterway	Inspect Twice per Year
BMP-49	Retaining Wall South of CBLS	URI	BMP Removed in 2015 as Part of New Chemistry Building	N/A
BMP-50	CBLS Green Roof	URI	Green roof	Inspect Twice per Year
BMP-51	CBLS Stormceptor	URI	Sedimentation unit	Inspect Twice per Year
BMP-52	Hillside Dorm Water Quality Structures	URI	Sedimentation Unit	Inspect Twice per Year
BMP-53	Hillside Dorms Bio-retention Areas	URI	Bio-retention area	Inspect Twice per Year
BMP-54	Infiltration Basin south of Baird Hill Road and West of Lower College Road	URI	Infiltration Basin	Inspect Twice per Year
BMP-55	Bio-Retention Area North of College of Pharmacy	URI	Bio-Retention Area	Inspect Twice per Year
BMP-56	Swale south of Parking Services Building	URI	Swale	Inspect Twice per Year
BMP-57	Swale East of Hillside East Access Road	URI	Swale	Inspect Twice per Year
BMP-58	Paved swales at Keaney Parking Lot	URI	Swale	Inspect Twice per Year
BMP-59	Sherman East Lot infiltration System	URI	Infiltration System	Inspect Twice per Year
BMP-60	Wellness Center Infiltration System	URI	Infiltration System	Inspect Twice per Year

POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd

BMP-61	Culverts Crossing Plains Road North of Flagg Road	URI	Culverts	Inspect Twice per Year
BMP-62	Culverts Crossing Flagg Road West of Plains Road	URI	Culverts	Inspect Twice per Year
BMP-63	Flagg Road Extension Detention/Infiltration Basin "A"	URI	Infiltration Systems	Deleted - Repeat of No. 19
BMP-64	Flagg Road Extension Porous Paving Lot	URI	Pervious Parking Surface	Inspect Twice per Year
BMP-65	Central Receiving Infiltration	URI	Infiltration System	Inspect Twice per Year
BMP-66	Storm Water Test Station	URI	Sampling Station	Inspect Annually
BMP-67	Infiltration/Detention Basin South of Sherman Building	URI	Infiltration System	Inspect Twice per Year
BMP-68	Swale East of Butterfield Hall	URI	Swale	Removed in 2016
BMP-69	COP Medicinal Garden	URI	Rain Garden	Inspect Annually
BMP-70	Swale West of Davis Hall	URI	Swale	Inspect Twice per Year
BMP-71	Swale East of Rodman Hall	URI	Swale	Inspect Twice per Year
BMP-72	Swale East of White Hall (BMP Removed 2/14)	URI	Swale – Removed in 2014 as part of new Chemistry Building	N/A
BMP-73	Swale South of Fayerweather Hall	URI	Swale	Inspect Twice per Year
BMP-74	Paved Swales at Gateway Apartments	URI	Swale	Inspect Annually
BMP-75	Paved Swale at Well House No. 2	URI	Swale	Inspect Twice per Year
BMP-76	Plains Lot Addition (2013) – Infiltration Channels	URI	Infiltration System	Inspect Twice per Year
BMP-77	Flagg Road Extension Swales Parallel to Road	URI	Swale	Inspect Twice per Year
BMP-78	Plains Lot Addition (2013) – New Culverts into Basin "E"	URI	Culverts	Inspect Twice per Year
BMP-79	Flagg Road Extension – Paved Waterways	URI	Swale	Inspect Twice per Year
BMP-80	Flagg Road Extension Basin "H" Discharge Structure	URI	Infiltration system	Inspect Twice per Year
BMP-81	White Hall Lot – Swale at NW Corner of Lot	URI	Swale	Inspect Twice per Year
BMP-82	Greenhouse Lot – Dry Swales	URI	Swale	Inspect Twice per Year
BMP-83	Greenhouse Lot – Grass Channel	URI	Swale	Inspect Twice per Year
BMP-84	Greenhouse Lot – Paved Waterways	URI	Swale	Inspect Twice per Year
BMP-85	Greenhouse Lot – Forebay/Infiltration System	URI	Infiltration System	Inspect Twice per Year
BMP-86	Greenhouse Roof Drain infiltration System	URI	Infiltration System	Inspect Twice per Year

POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd

BMP-87	Hillside Dorm Green Roof	URI	Infiltration System	Review Annually
BMP-88	Flagg Road Detention Basin "D"	URI	Infiltration System	Review Annually
BMP-89	Flagg Road Detention Basin "E"	URI	Infiltration System	Review Annually
BMP-90	Flagg Road Detention Basin "H"	URI	Infiltration System	Review Annually
BMP-91	Stone Swale east of Butterfield Residence Hall	URI	Swale	Review Annually
BMP-92	Tree Box Filters in Chemistry Building Area	URI	Detention/Infiltration System	Review Annually
BMP-93	Bioretention/Detention/Forebay System North of New Chemistry Building	URI	Detention/Infiltration System	Review Annually
BMP-94	Bioretention/Detention/Forebay System South of New Chemistry Building	URI	Detention/Infiltration System	Review Annually
BMP-95	Tree Box Filters in Flagg Road Parking Lot	URI	Detention/Infiltration System	Review Annually
BMP-96	Swale North of the CBLN NW Corner	URI	Swale	Review Annually
BMP-97	Rip Rap Swale West of New Electric Sub-Stations 1 & 2.	URI	Swale	Review Annually
BMP-98	Rip Rap Swale East of Butterfield Dining Hall	URI	Swale	Review Annually
BMP-99	Asphalt Berms at Fraternity Circle	URI	Swale	Review Annually
BMP-100	Swale North of Hopkins Hall	URI	Swale	Review Annually
BMP-101	Swale North of Chemistry/White Hall	URI	Swale	Review Annually
BMP-102	Detention Basin South of Elephant Walk 250' East of Butterfield Road	URI	Detention	Review Annually
BMP-103	Detention Basin East of Butterfield Hall	URI	Detention	Review Annually
BMP-104	Detention Basin 100' East of Butterfield Hall	URI	Detention	Review Annually
BMP-105	Rip Rap Swale at SW corner of Chafee Hall Parking Lot	URI	Swale	Review Annually
BMP-106	Tootell Rd Drainage – Infiltration	URI	Infiltration	Review Annually
BMP-107	Browning Hall Infiltration System	URI	Infiltration	Review Annually
BMP-108	Weldin Hall Infiltration System	URI	Infiltration	Review Annually
BMP-109	Sigma Chi Infiltration System	URI	Infiltration	Review Annually

POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd

BMP-110	Int Institute of Sports Infiltration System	URI	Infiltration	Review Annually
BMP-111	Ryan Center Vortechics (NE)	URI	Vortechics	Review Annually
BMP-112	Swales SE and East of Ranger Hall	URI	Swale	Review Annually
BMP-113	Baseball Field Dry Wells	URI	Infiltration	Review Annually
BMP-114	Dry Well South of Green Hall	URI	Infiltration	Review Annually
BMP-115	Culvert at Complex Road	URI	Culverts	Review Annually
BMP-116	Permeable Pavers at Hillside Hall Patio	URI	Infiltration System	Review Annually
BMP-117	Visitors Center Cul-Tec	URI	Infiltration System	Review Annually
BMP-118	Detention Pond West of MU	URI	Infiltration System	Review Annually
BMP-119	Detention Pond North of Bressler	URI	Infiltration System	Review Annually
BMP-120	Detention Basin S of Ele Walk & W of MU	URI	Infiltration System	Review Annually

SECTION II.B - Discharges Causing Scouring or Excessive Sedimentation (Part IV.B.6.b.1.v)

Outfall ID:	Location:	Description of Problem:	Description of Remediation Taken, include dates:	Receiving Water Body Name/Description:
URI-001	Flagg Road at White Horn Brook	Sedimentation	Sediment removed in September 2017	White Horn Brook
URI-003	WHB from Facilities Area	Sedimentation	Sediment removed in Sept. 2017	White Horn Brook
URI-026	North of AXD	Sedimentation	Sediment removed in Sept. 2017	White Horn Brook
URI-028	East of Keaney East Lot	Sedimentation	Sediment removed in Sept. 2017	White Horn Brook
URI-029	Keaney Lot SE Corner at WH Brook	Sedimentation	Sediment removed in Sept. 2017	White Horn Brook
URI-079	West of Child Development	Sedimentation	Sediment removed in Sept 2017	White Horn Brook

SECTION II.C - Note any planned municipal construction projects/opportunities to incorporate water quality BMPs, low impact development, or activities to promote infiltration and recharge (Part IV.G.2.j).

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POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd

SECTION II.D - Please include a summary of results of any other information that has been collected and analyzed. This includes any type of data (Part IV.G.2.e).

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TOTAL MAXIMUM DAILY LOAD (TMDL) or other Water Quality Determination REQUIREMENTS

SECTION I. If you have been notified that discharges from your MS4 require non-structural or structural stormwater controls based on an approved TMDL or other water quality determination, please provide an assessment of the progress towards meeting the requirements for the control of stormwater identified in the approved TMDL (Part IV.G.2.d). Please indicate rationale for the activities chosen to address the pollutant of concern.



SPECIAL RESOURCE PROTECTION WATERS (SRPWs)

SECTION I. In accordance with Rule 31(a)(5)(i)G of the *Regulations for the Rhode Island Pollutant Discharge Elimination System (RIPDES Regs)*, on or after March 10, 2008, any discharge from a small municipal separate storm sewer system to any Special Resource Protection Waters (SRPWs) or impaired water bodies within its jurisdiction must obtain permits if a waiver has not been granted in accordance to Rule 31(g)(5)(iii). A list of SRPWs can be found in Appendix D of the *RIDEM Water Quality Regulations* at this link:

<http://www.dem.ri.gov/pubs/regs/regs/water/h20q09a.pdf>

The 2008 303(d) Impaired Waters list can be found in Appendix G of the *2008 Integrated Water Quality Monitoring and Assessment Report* at this link: <http://www.dem.ri.gov/programs/benviron/water/quality/pdf/iwqmon08.pdf>

If you have discharges from your MS4 (regardless of its location) to any of the listed SRPWs or impaired waters (including impaired waters when a TMDL has not been approved), please provide an assessment of the progress towards expanding the MS4 Phase II Stormwater Program to include the discharges to the aforementioned waters and adapting the Six Minimum Control Measures to include the control of stormwater in these areas. Please indicate a rationale for the activities chosen to protect these waters. Please note that all of the measurable goals and BMPs required by the 2003 MS4 General Permit may not be applicable to these discharges.



RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Office of Water Resources



INSTRUCTIONS FOR THE RI POLLUTANT DISCHARGE ELIMINATION SYSTEM (RIPDES) SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS AND INDUSTRIAL ACTIVITY AT ELIGIBLE FACILITIES OPERATED BY REGULATED SMALL MS4s ANNUAL REPORT FORM

WHO MUST SUBMIT AN ANNUAL REPORT:

Owners/Operators of regulated small municipal separate storm sewer systems (MS4s) and industrial activities authorized to discharge stormwater under the Rhode Island Pollutant Discharge Elimination System (RIPDES) Stormwater General Permit for Small Municipal Separate Storm Sewer Systems and Industrial Activity at Eligible Facilities Operated by Regulated Small MS4s (hereafter referred to as "the General Permit"), must submit an Annual Report, outlined in Part IV.G of the permit. The Report must be submitted each year after permit issuance by March 10th to track progress of compliance. If you have questions regarding this Annual Report Form contact Margarita Chatterton of the Rhode Island Department of Environmental Management (RIDEM), Office of Water Resources, Permitting Section at (401) 222-4700 ext. 7605.

The Annual Report must be submitted to:

RIDEM
Office of Water Resources
RIPDES Program
Permitting Section
235 Promenade Street
Providence, RI 02908
ATTN: Jennifer Stout

INSTRUCTIONS FOR COMPLETION:

GENERAL INFORMATION PAGE:

"RIPDES Permit #"

Include your permit ID # to ensure proper tracking.

"Operator of MS4"

Give the legal name of the person, firm, public (municipal) organization, or any other entity that is responsible for day-to-day operations of the MS4 described in this application (RIPDES Rules 3 & 12). Enter the complete address and telephone number of the operator. Circle the appropriate choice to indicate the legal status of the operator of the MS4.

"Owner of MS4"

If the owner is the same as the operator do not complete this section. Give the legal name of the person, firm, public (municipal) organization, or any other entity that owns the MS4 described in this application (RIPDES

Rules 3 & 12). Do not use a colloquial name. Enter the complete address and telephone number of the owner.

"Certification"

State and federal statutes provide for severe penalties for submitting false information on this application form. State and federal regulations require this application to be signed as follows (RIPDES Rule 12);

For a corporation: by a responsible corporate officer, which means: (i) president, secretary, treasurer, or vice president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information or permit application requirements; and where authority to sign documentation has been assigned or delegated to the manager in accordance with corporate procedures;

For a partnership or sole proprietorship: by a general partner or the proprietor;

For a Municipality, State, Federal or other public site: by either a principal executive officer or ranking elected official.

SECTION I- OVERALL EVALUATION OF BMPS AND MEASURABLE GOALS:

One or more pages, front and back, are provided to report on the status of measurable goals which have been developed to aid in the implementation of strategies, procedures, and programs used to achieve each of the six minimum control measures in Part IV.B of the General Permit. This section provides narrative space for a descriptive explanation and evaluation of the actions taken to satisfy each of the minimum control measures for the 2017 calendar year. Please type or print. If additional space is needed, modify as necessary. Please submit attachments to the appropriate minimum control measure following the format provided.

A Permit ID # has been provided, which refers to the part of the permit where you can find a listing or description of the required measurable goal.

Please provide a general summary of actions taken (implementation of BMPs, development of procedures, events, etc.) to meet the measurable goals of the minimum measure. **Be sure to identify parties responsible for achieving each measurable goal** and reference any reliance on another entity for achieving any measurable goal. **Mark with an asterisk (*) if this person/entity is different from last year.**

Describe whether each measurable goal was completed within the time proposed in the General Permit or your Stormwater Management Program Plan (SWPPP). Why or why not? Provide a progress report and discussion of activities that will be carried out during the next reporting cycle to satisfy the requirements of the minimum measures. If applicable, assess the appropriateness of the actions taken to meet the requirements of the minimum measure. In determining appropriateness, you may want to consider at a minimum the local population targeted, pollution sources addressed, receiving water concerns, integration with local management procedures, and available resources and violations or environmental impacts eliminated or minimized.

Also, discuss the effectiveness of the implementation of BMPs to meet the requirements of the minimum measure and the overall effectiveness of the minimum measure. Describe your progress towards achieving the overall goal of reducing the discharge of pollutants. Please include assessment parameters/indicators used to measure the success of the minimum measure. Also include a discussion of any proposed changes to BMPs or measurable goals.

After evaluation, it may be necessary to make changes or modifications to your Implementation Schedule if the time frame, appropriateness or effectiveness cannot be assured. If so, please include descriptions of changes or modifications, and detailed justification in the appropriate sections.

SECTION II- ADDITIONAL ANNUAL REPORT REQUIREMENTS

Section II refers to additional reporting requirements that the General Permit requires to be submitted to the Department as part of the Annual Report. Section II requirements apply to Minimum Control Measures 2 through 6.

Minimum Control Measure #2: Section II:
Specify the date of and how the annual report was public noticed. If a public meeting was needed, provide the date and place. Include a summary of public comments

received in the public comment period of the draft annual report and planned responses or changes to the program (new or revised BMP's and measurable goals, partnerships, etc.). Be sure to attach a copy of your public notice (Parts IV.G.2.h and IV.G.2.i) to the Annual Report.

Minimum Control Measure #3: Section II.A:
Provide the number of illicit discharges identified in 2017, number of illicit discharges tracked in 2017, number of illicit discharges eliminated in 2017, complaints received, complaints investigated, violations issued and resolved with a summary of enforcement actions, number of unresolved violations that have been referred to RIDEM, the total number of illicit discharges identified to date, and the total number of illicit discharges remaining unresolved at the end of 2017. Include a short narrative describing the extent to which your system has been mapped (Part IV.G.2.m), and the total number of outfalls identified to date.

Minimum Control Measure #3: Section II.B:
List identified MS4 interconnections, including location, date found, operator of the physically interconnected MS4, and originating source of newly identified physical interconnections with other small MS4s. Also note any planned or coordinated activities with the physically interconnected MS4 (Part IV.G.2.k and IV.G.2.l).

Minimum Control Measures #4 & 5: Section II.A:
Identify the number of construction and post-construction plan and SWPPP/SESC Plan reviews completed during Year 14 (2017) and any additional information. This includes, but is not limited to a summary of the reviews, responsible parties, and types of projects reviewed.

Minimum Control Measure #4: Section II.B:
Construction inspection information for erosion and sediment control should be submitted annually as stated in Part IV.G.2.n. Provide a summary of the number of site inspections conducted, inspections that have resulted in enforcement actions, violations that have been resolved and of those unresolved, referred to RIDEM.

Minimum Control Measure #5: Section II.B:
Post-construction inspection information for proper installation of post-construction structural BMPs should be submitted annually as stated in Part IV.G.2.o. This should provide a summary of the number of site inspections conducted, inspections that have resulted in enforcement actions, violations that have been resolved and of those unresolved, referred to RIDEM.

Minimum Control Measure #5: Section II.C:
Inspection information for proper operation and maintenance of post-construction structural BMPs should be submitted annually as stated in Part IV.G.2.p. This should provide a summary of the number of site inspections conducted, inspections that have resulted in

enforcement actions, violations that have been resolved and of those unresolved, referred to RIDEM.

Also include a discussion of any proposed changes to BMPs or measurable goals.

Minimum Control Measure #6: Section II.A:

As prescribed in Part IV.B.6.b.1.i of the General Permit, the MS4 operator must identify and list the specific location and description of all structural BMPs in the SWMPP at the time of application and update the information in the annual report.

Minimum Control Measure #6: Section II.B:

Part IV.B.6.b.1.v of the General Permit states to identify and report annually, as part of the annual report, known discharges causing scouring at outfall pipes or outfalls with excessive sedimentation. Include Outfall ID #, location, description of the problem, any remediation taken, and the ultimate receiving water body.

Minimum Control Measure #6: Section II.C:

As noted in Part IV.G.2.j of the General Permit, specify any planned municipal construction projects or opportunities to include water quality BMPs, low impact development, or seek to promote infiltration and recharge.

Minimum Control Measure #6: Section II.D:

Please include a summary of results of any other information that has been collected and analyzed. This includes any type of data, including, but not limited to, dry weather survey data (Part IV.G.2.e).

TOTAL MAXIMUM DAILY LOAD (TMDL) or other Water Quality Determination REQUIREMENTS

Section I:

Complete this section only if your MS4 is subject to an approved TMDL. TMDL requirements may require the implementation of the six minimum control measures to address the pollutants of concern, and/or additional structural stormwater controls or measures that are necessary to meet the provisions of the approved TMDL. Be sure to identify the approved TMDL and assess the progress towards meeting the requirements for the control of stormwater (Part IV.G.2.d).

Provide a progress report on the present status and discussion of activities that have been accomplished or will be carried out during the next reporting cycle to satisfy the requirements of the TMDL. If applicable, assess the appropriateness of the BMPs selected under each of the six minimum control measures to meet the requirements of the TMDL. In determining appropriateness, you may want to consider violations or environmental impacts eliminated or minimized.

Please include assessment parameters/indicators that will be used to measure the success of the selected BMPs.

SPECIAL RESOURCE PROTECTION WATERS (SRPWs)

Section I:

Complete this section only if your MS4, located outside Urbanized Areas or Densely Populated Areas, discharges to:

a SRPW as listed in Appendix D of the *RIDEM Water Quality Regulations* at this link:

<http://www.dem.ri.gov/pubs/regs/regs/water/h20q09a.pdf>

or

an impaired water body including water bodies with no approved TMDL as listed in Appendix G of the *2008 Integrated Water Quality Monitoring and Assessment Report* at this link:

<http://www.dem.ri.gov/programs/benviron/water/quality/pdf/iwqmon08.pdf>.

In accordance with Rule 31(a)(5)(i)G in the *Regulations for the Rhode Island Pollutant Discharge Elimination System* (RIPDES Regulations), MS4s were required to incorporate any discharges to these water bodies into their MS4 Program on or after March 10, 2008 unless a waiver has been granted in accordance with Rule 31(g)(5)(iii).

Provide a progress report on the present status and discussion of activities that have been accomplished or will be carried out during the next reporting cycle to incorporate these areas into the MS4's Phase II Stormwater Program.